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ON SOME MOSSES COLLECTED IN MADEIRA BY WILLIAM
TRELEASE, IN JUNE, 1896.

BY J. CARDOT.

1. *WEISIA VIRIDULA* (Linn.) Hedw. Fund. II. p. 90.—
The Mount (Trelease, no. 3000).
2. *DICRANUM CANARIENSE* Hpe. in Bot. Zeit. 1862, p. 11.—
Caldeirão do Inferno (Trelease, no. 3001).

This moss has been mistaken for *D. Scottianum* Turn., from which it differs chiefly by the distinctly serrate leaves. The true *D. Scottianum* seems not to be found either at Madeira, or in the Canaries. (Cf. Geheeb, Bryologische Fragmente, in Flora, 1886, no. 22).

3. *TRICHOSTOMUM CIRRHIFOLIUM* (Mitt.) Card. (*Tortula cirrhifolia* Mitt. apud Godman, Nat. Hist. of the Azores, p. 296).—Boa Ventura (Trelease, no. 3002).
Ribeira da Vigaria (Trelease, no. 3114 in part).
 4. *AMPHORIDIUM CURVIPES* (C. Müll.) Jaeg. Adumbr. Fl. Musc. p. 386. (*Zygodon curvipes* C. Müll. Syn. I. p. 681).—Ribeiro Frio (Trelease, no. 3003).
 5. *HEDWIGIA CILIATA* (Dicks.) Ehrh. Hannov. Mag. 1781, p. 109.—Torrinhas (Trelease, no. 3004).
 6. *GLYPHOMITRIUM POLYPHYLLUM* (Dicks.) Mitt., Lindb. Musci Scand., p. 29. (*Ptychomitrium procerum* Sch.).—Ribeiro Frio, Caldeirão do Inferno (Trelease, nos. 3005, 3006).
- Ptychomitrium procerum* Sch. is, to my mind, a mere robust form of *G. polyphyllum*.
7. *GLYPHOMITRIUM NIGRICANS* (Br. Sch.) Mitt. var. *PULVINARE* (Mitt.) Card. (*G. pulvinare* Mitt. in Journ. Linn. Soc. 1863, p. 2).—Ribeiro Frio (Trelease, no. 3007).

8. *PHILONOTIS RIGIDA* Brid. Bryol. Univ. II. p. 17.—Sta. Cruz, Caldeirão do Inferno, Mount (Trelease, nos. 3008, 3009, 3010).
9. *PHILONOTIS MARCHICA* (Willd.) Brid. Bryol. Univ. II. p. 23, forma.—Ribeira da Vigaria (Trelease, no. 3011).
10. *BRYUM PLATYLOMA* Schw. Suppl. I. II. p. 116, t. LXXVI.—Caldeirão do Inferno, Ribeira da Vigaria, Mount (Trelease, nos. 3012, 3013, 3014).
11. *Bryum serrulatum* Card. *sp. nova*.—Funchal (Trelease, no. 3015).

Dioicum, nitidum, lutescens. Caulis brevissimus, simplex vel subperichaetio innovans, vix 3–4 millim. altus. Folia in comam densam congesta, madida rosulatum patentia, sicca appressa, superiora oblongo-lanceolata, breviter acuminata, costa excurrente mucronata, 1.50–2 millim. longa, inferiora minora, angustiora, longius acuminata, omnia marginibus e basi usque ad apicem versus anguste revolutis, superne minute sed distincte serrulata, costa basi dilatata, breviter excurrente; cellulis oblongo-hexagonis, inferioribus rectangulis. Folia perichaetialia externa comalibus subsimilia sed integra vel subintegra, intima multo minora, longius acuminata, marginibus planis integris. Capsula in pedicello rubello, circa 15 millim. longo, inclinata vel subhorizontalis, obovato-oblonga, basi attenuata, fusca, operculo convexo apiculato. Planta mascula ignota. — Pl. 11. — *a*, entire plant, nat. size; *b*, *b*, *b*, *b*, *b*, leaves $\times 14$; *c*, basal areolation of a leaf $\times 130$; *d*, leaf point $\times 130$; *e*, capsule $\times 14$.

Allied to *B. canariense* Brid., but easily known from that species by the very short stems, the more abruptly constricted and shorter acuminate leaves, glomerate to an apical bunch, the thinner costa and the suberect or inclined capsule.

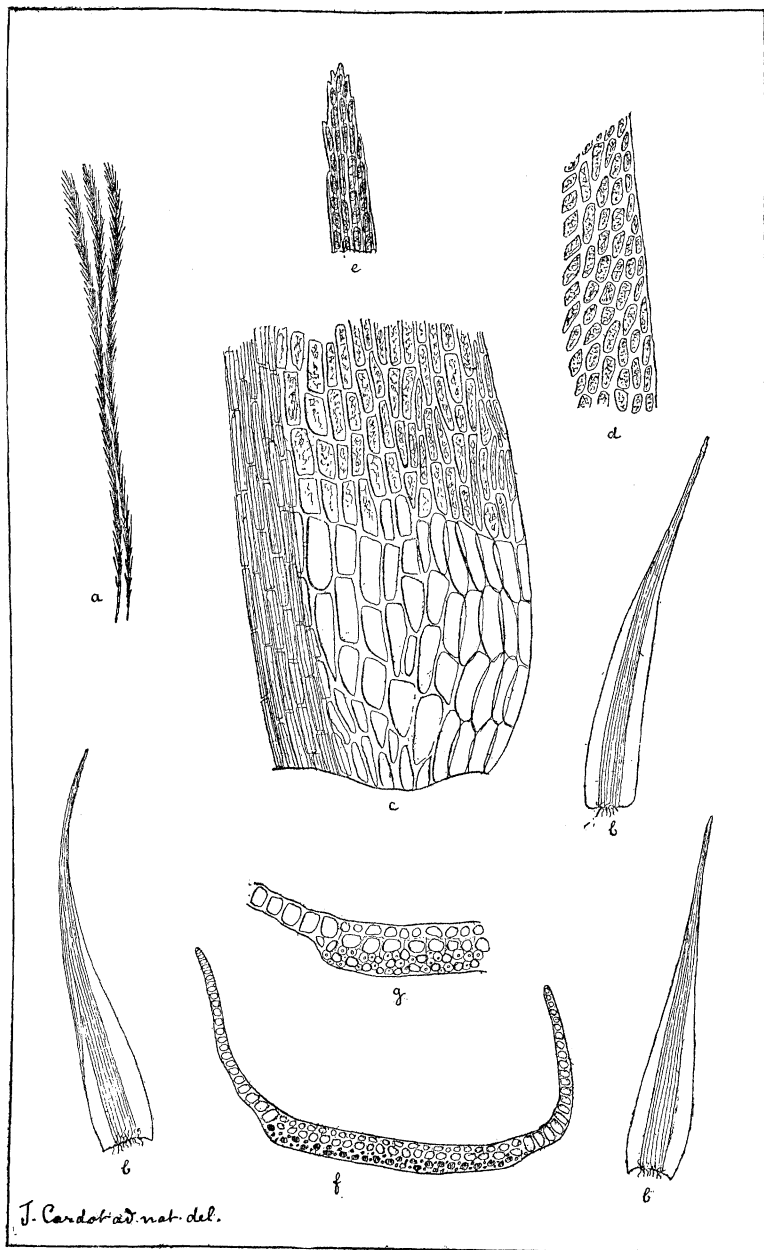
12. *BRYUM CAESPITICIUM* Linn. var. *ATLANTICUM* Card. in Rept. Mo. Bot. Gard. VIII. p. 62. São Jorge (Trelease, no. 3016).
13. *Mnium* — *sp. nova?* Ribeiro Frio (Trelease, no. 3017).

Very likely a new species, but unfortunately in a single fragment.

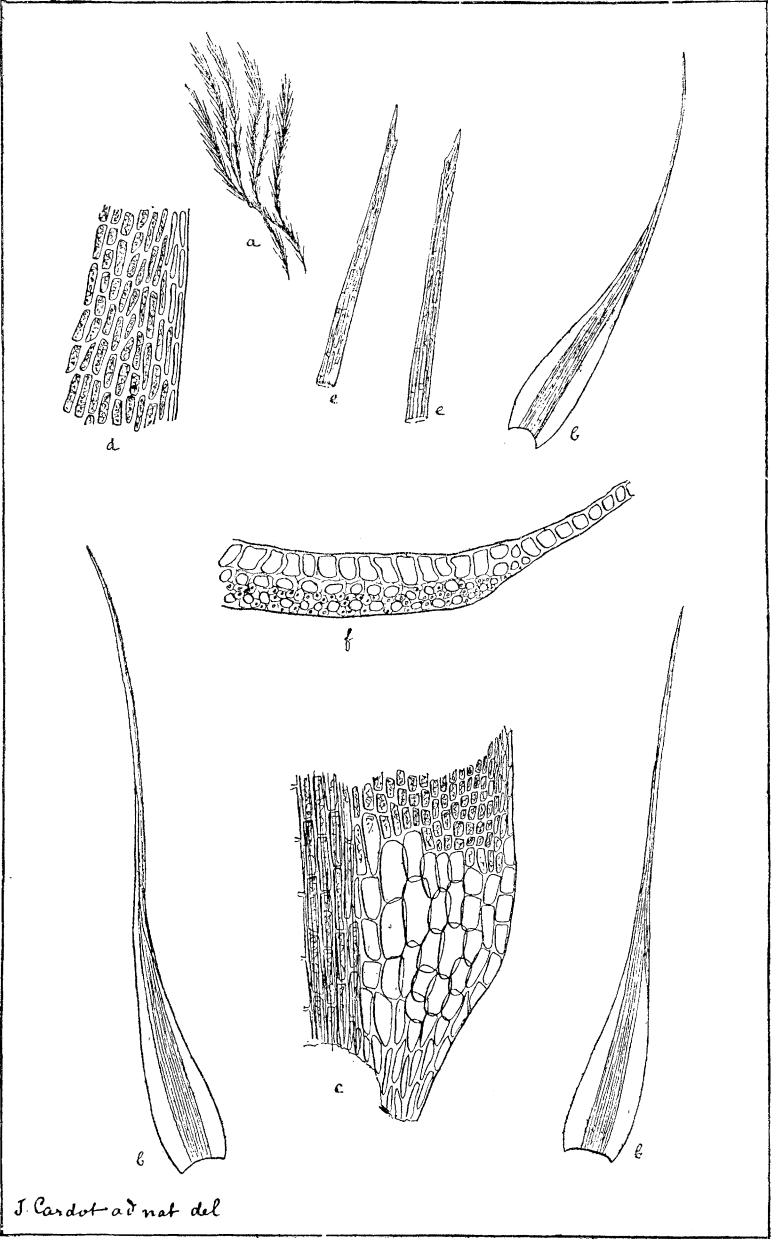
14. *POGONATUM ALOIDES* (Hedw.) Pal. Beauv. Prodr. p. 84.—Mount (Trelease, no. 3018).

15. *POLYTRICHUM COMMUNE* Linn. var. *MINUS* Weis. Pl. Crypt. Fl. Gott. p. 171. — Caldeirão do Inferno (Trelease, no. 3019).
16. *POLYTRICHUM PILIFERUM* Schreb. Spic. Flor. Lips. p. 74.— Ribeiro Frio (Trelease, no. 3020).
17. *THAMNIUM ALOPECURUM* (Linn.) Br. Sch. Bryol. Eur. fasc. 49–51, Mon. p. 4, t. 1.— Ribeiro Frio (Trelease, no. 3021.)
18. *SCIAROMIUM PROLIXUM* (Mitt.) Jaeg. et Sauerb. Adumbr. Fl. Musc.—Torrinhas, Ribeiro Frio, Ribeira Brava (Trelease, nos. 3022, 3023).
19. *HYPNUM PURUM* Linn. Sp. Plant. p. 1594.— Boa Ventura, Caldeirão do Inferno (Trelease, nos. 3024, 3025).

Stenay, Feb. 1897.

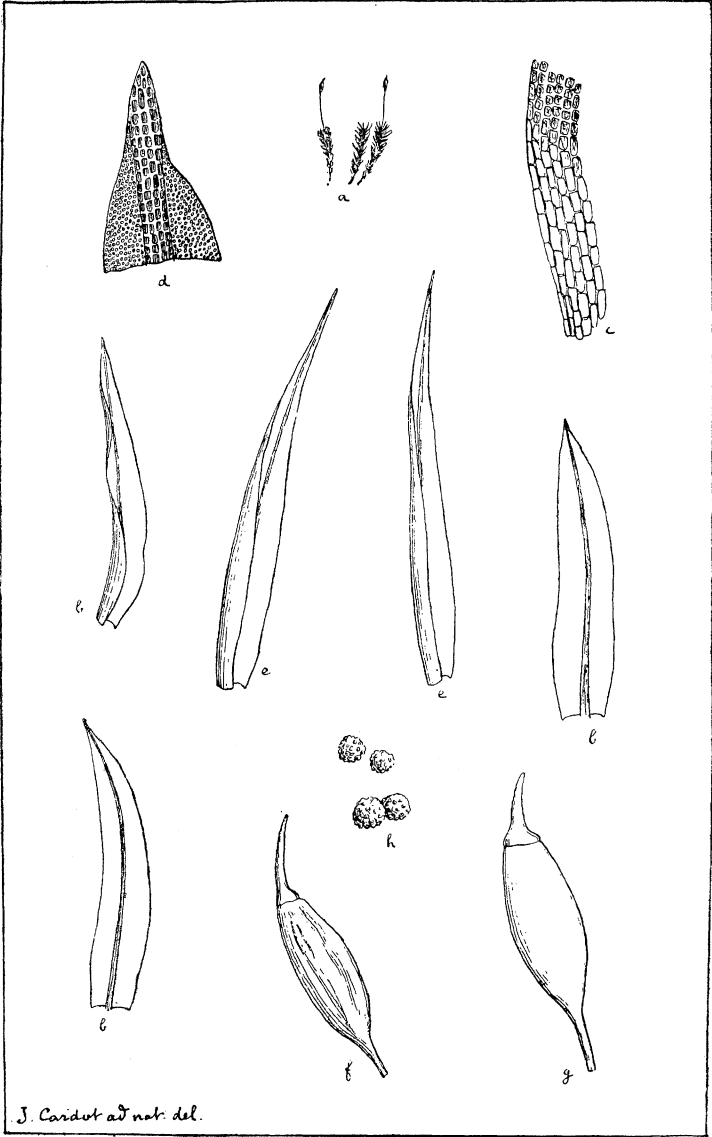


CAMPYLOPUS FLEXUOSUS, VAR. FAYALENSIS.



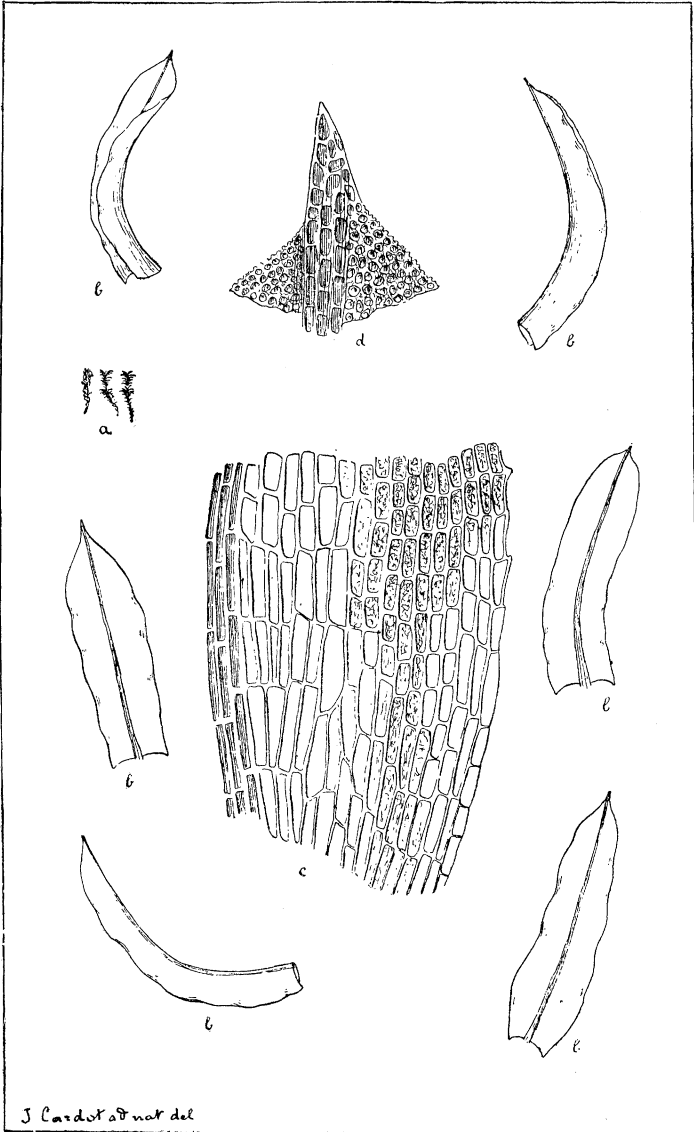
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CAMPYLOPUS SETACEUS.

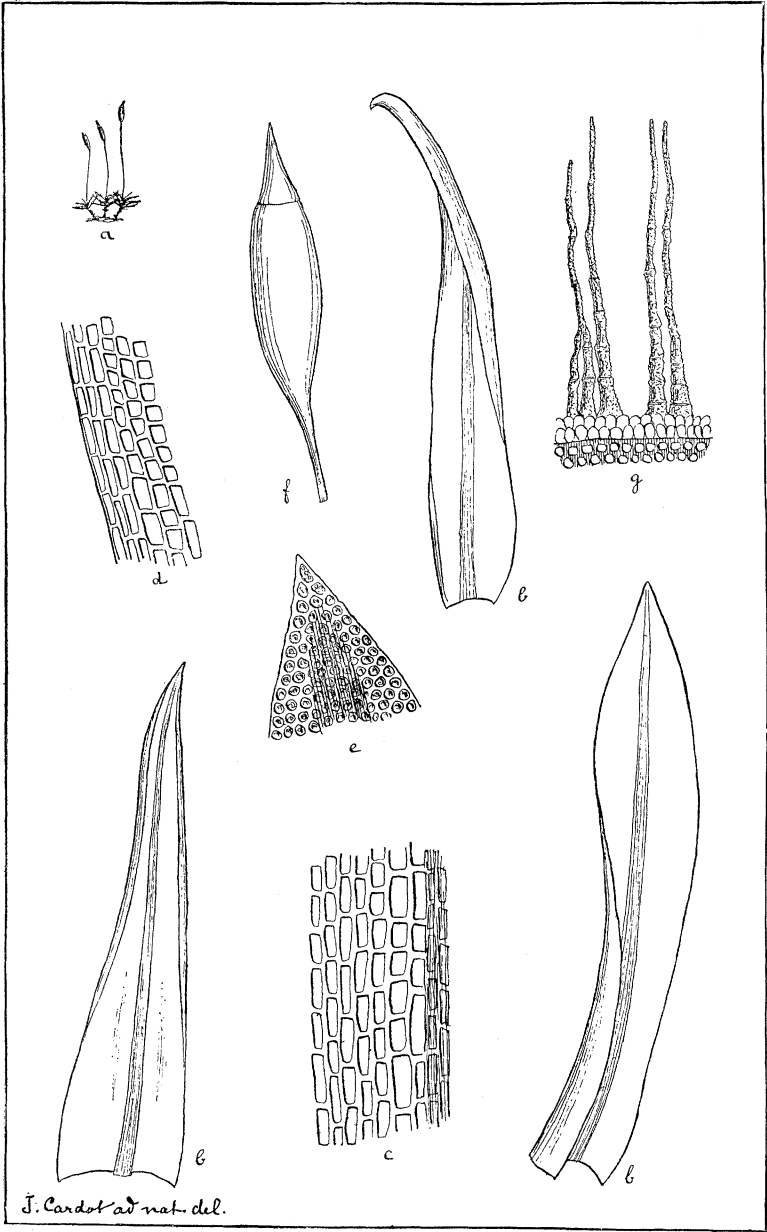


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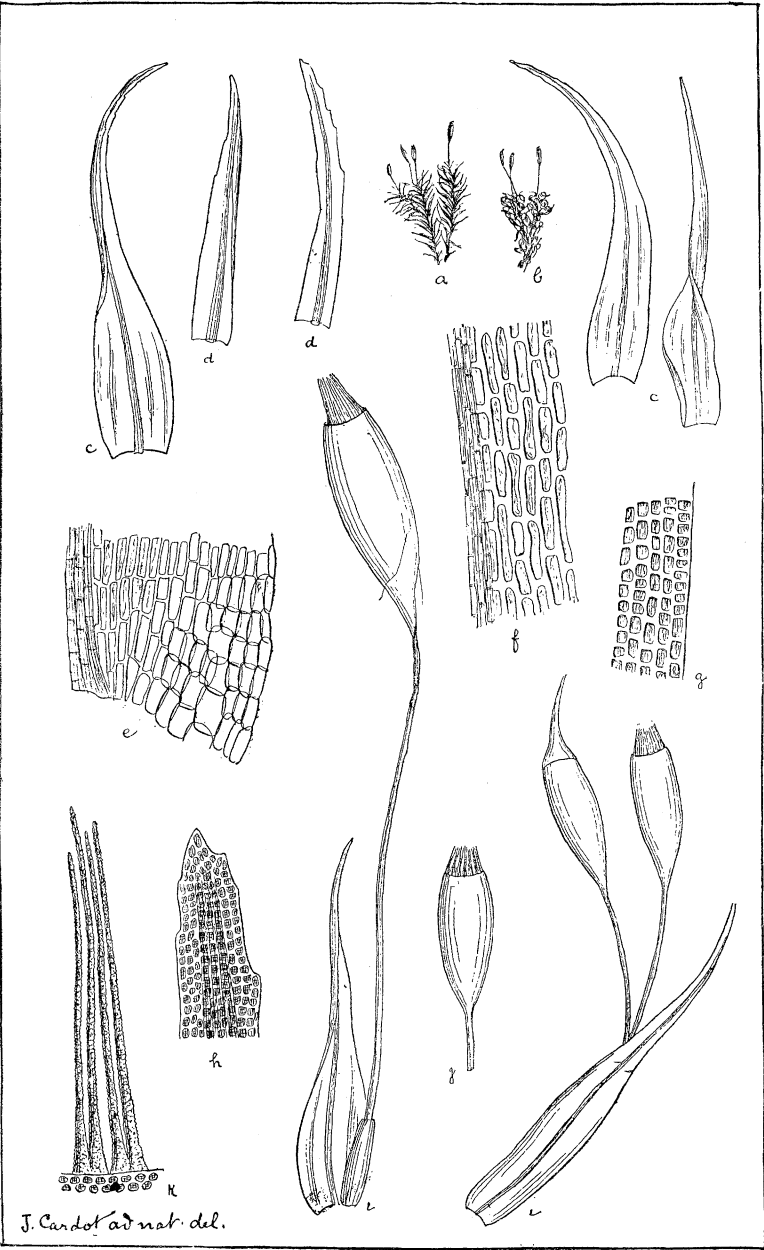
HYOPHILA TRELEASEI.



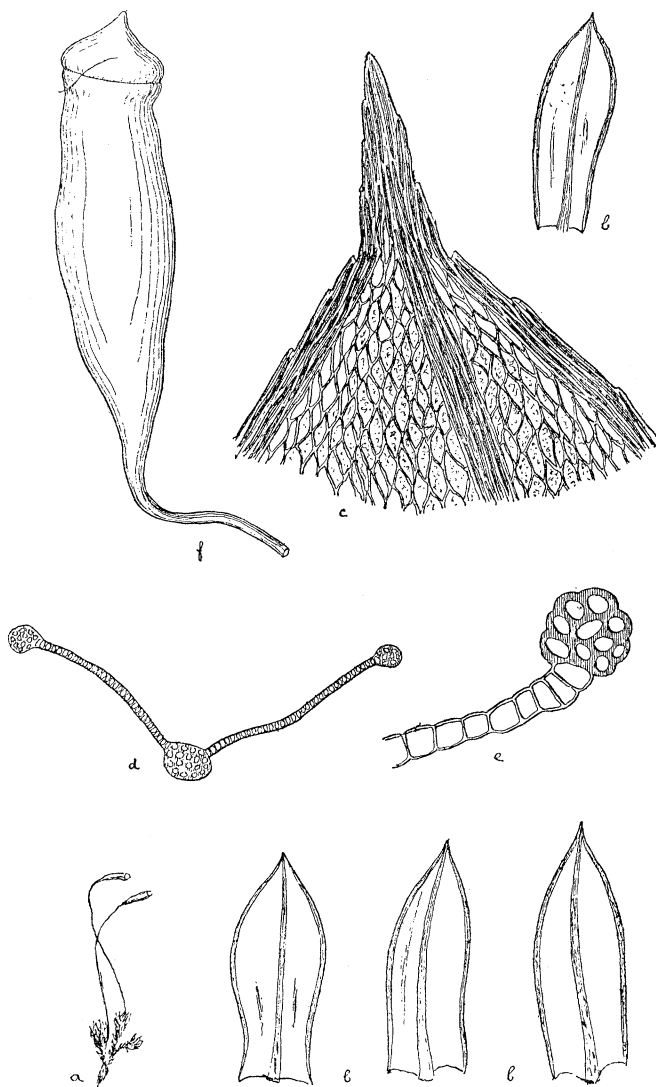
TRICHOSTOMUM MUCRONATULUM.



TRICHOSTOMUM AZORICUM.

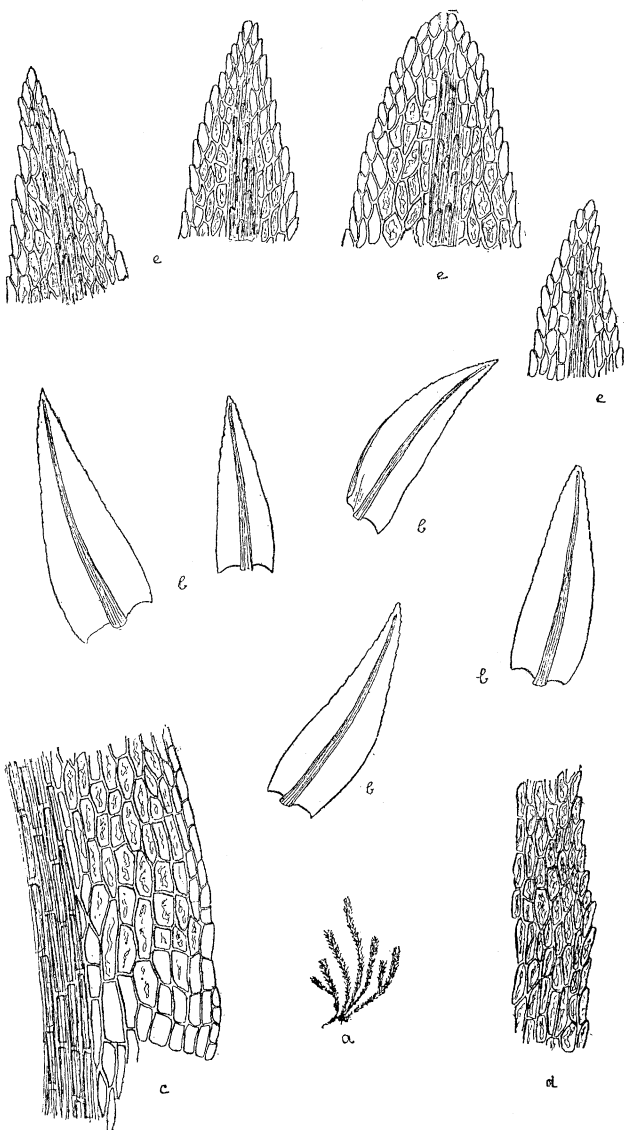


GLYPHOMITRIUM AZORICUM.



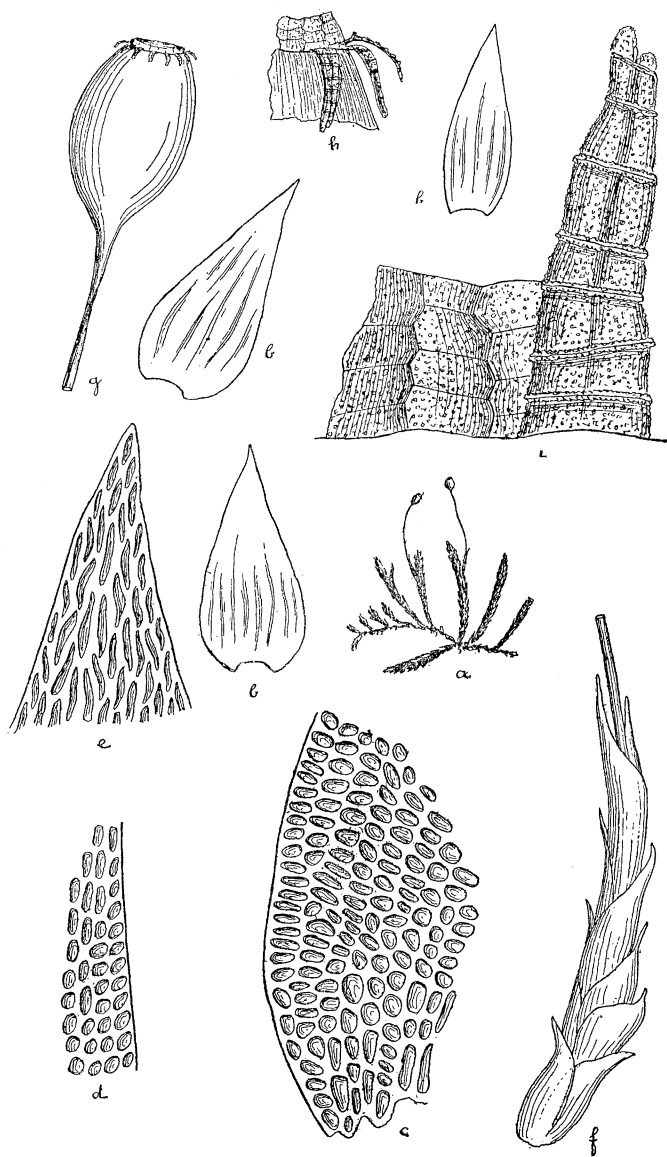
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BRYUM PACHYLOMA.



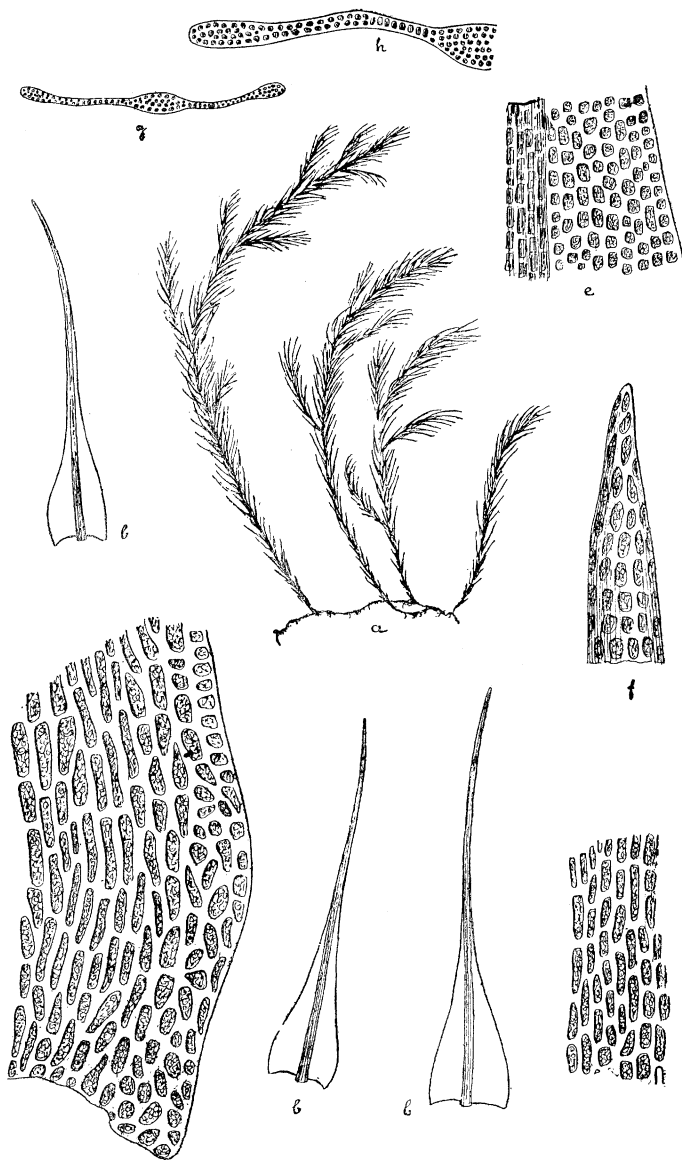
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PHILONOTIS OBTUSATA.



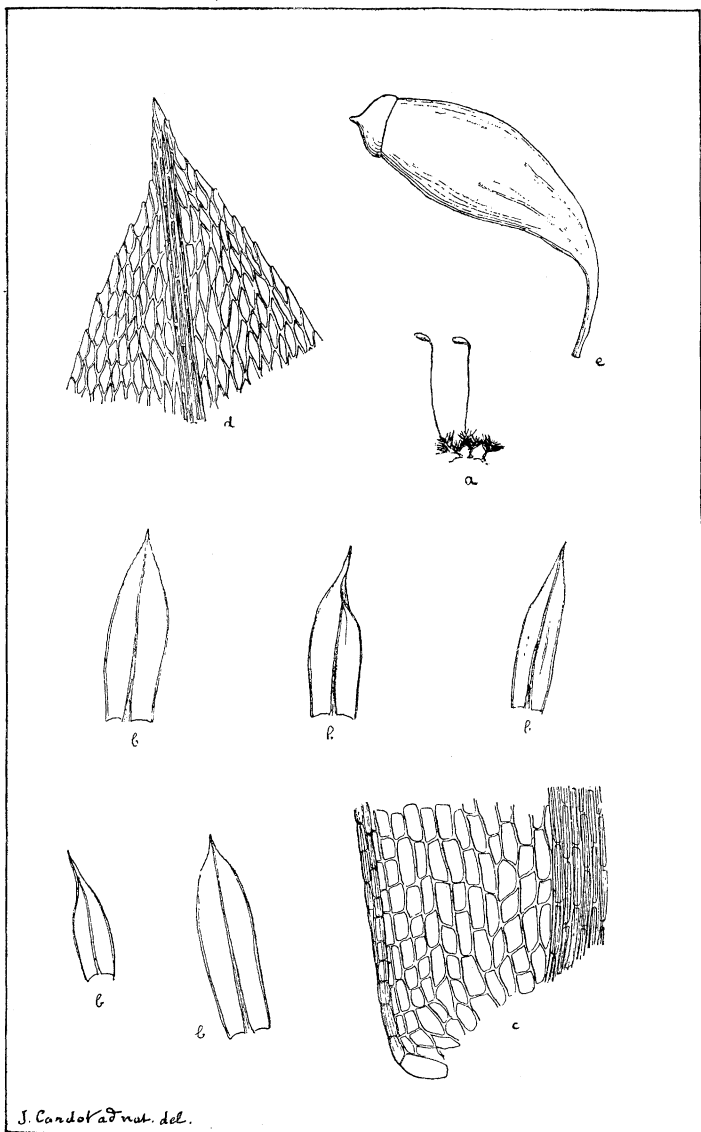
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ASTRODONTIUM TRELEASEI.



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SCIARIOMIUM RENAULDI.



BRYUM SERRULATUM.